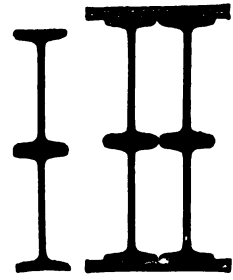




## HOMAN'S PATENT GIRDERS, JOISTS, AND FIRE-PROOF FLOORS

ARE SUPERSEDING EVERY OTHER KIND,

AND ARE NOW ADOPTED IN CONSTRUCTION THROUGHOUT THE WORLD.



"From some experiments which took place in London, on Tuesday, at the Grove, Southwark, with Mr. Kirkaldy's Testing Machine, it would seem that we are on the eve of a complete revolution in the strength and in the economy both of material and manufacture of Rolled Iron Girders, and that since the days of Mr. Fairbairn's celebrated Girder of 1846 there has been nothing so important to its purpose as the invention we are about to describe."—RYLAND'S IRON TRADE CIRCULAR.

"Taking the results as they stand, and making the best and worst of them, they exhibit a clear gain of from 30 to 40 per cent. over the ordinary system."—MECHANICS' MAGAZINE.

"Of the details of the experiments there is no doubt, and we can only say that the results were beyond what anyone could have expected. They cannot fail to strike the attention of Architects and Engineers, and we trust that they may lead to a greatly increased use of wrought iron in the construction of buildings."—ENGINEERING.

## HOMAN'S PATENT IMPROVED FIRE-PROOF FLOORS



### SECURE THE FOLLOWING ADVANTAGES:

- First.—A saving of *one-third* of the iron usually employed.
- Second.—No iron bars or wood fillets are required to support the concrete.
- Third.—No counterceiling or laths are required, a perfect key for the plaster ceiling being furnished by the rough concrete.
- Fourth.—The finished floor forms a construction of the strongest kind, the tensional strains of the load being taken by the iron, and the compressive strains by the concrete.
- Fifth.—The depth of the floor is less than any other kind, and thereby secures greater height for the rooms.
- Sixth.—The execution of the work requires no special appliances, and may be effected by any labourer.
- Seventh.—The cost is less than any other kind, and it IS THE ONLY SYSTEM OF FIRE-PROOF CONSTRUCTION THAT HAS SUCCESSFULLY RESISTED THE ACTION OF A GREAT FIRE.

The pressing necessity for the general adoption of Fire-proof Construction has been strikingly pointed out by the large number of disastrous fires that have lately occurred.

With the view of meeting the objection that it costs more than ordinary construction, we have made arrangements to execute the best Fire-proof Floors—the part of the building on which the whole question turns—at a trifling advance in cost over the ordinary combustible floors.

Joists, Riveted Girders, Column Roofs, Bridges, and every kind of wrought and cast iron and Smiths' work for Building purposes.

CONSULTATIONS, DRAWINGS, AND ESTIMATES, FREE OF COST.

*The Fire-proof Construction, and Patent Girders known as Phillips's Patent, Double Flanged Girders, and Solid Flanged Girders, are made and sold under Mr. Homan's Patents.*

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